

VORT AVEL HR 450 D RANGE

PASSIVHAUS CERTIFIED CENTRALISED MECHANICAL EXTRACT UNIT WITH HEAT RECOVERY



- Centralised mechanical supply and extract unit with heat recovery
- Passivhaus certified
- Vertical wall Installation
- BMS compatible
- G4 filters
- 4 operational speeds
- IPX2 rated



Products equipped with EC Brushless motors



Energy efficient

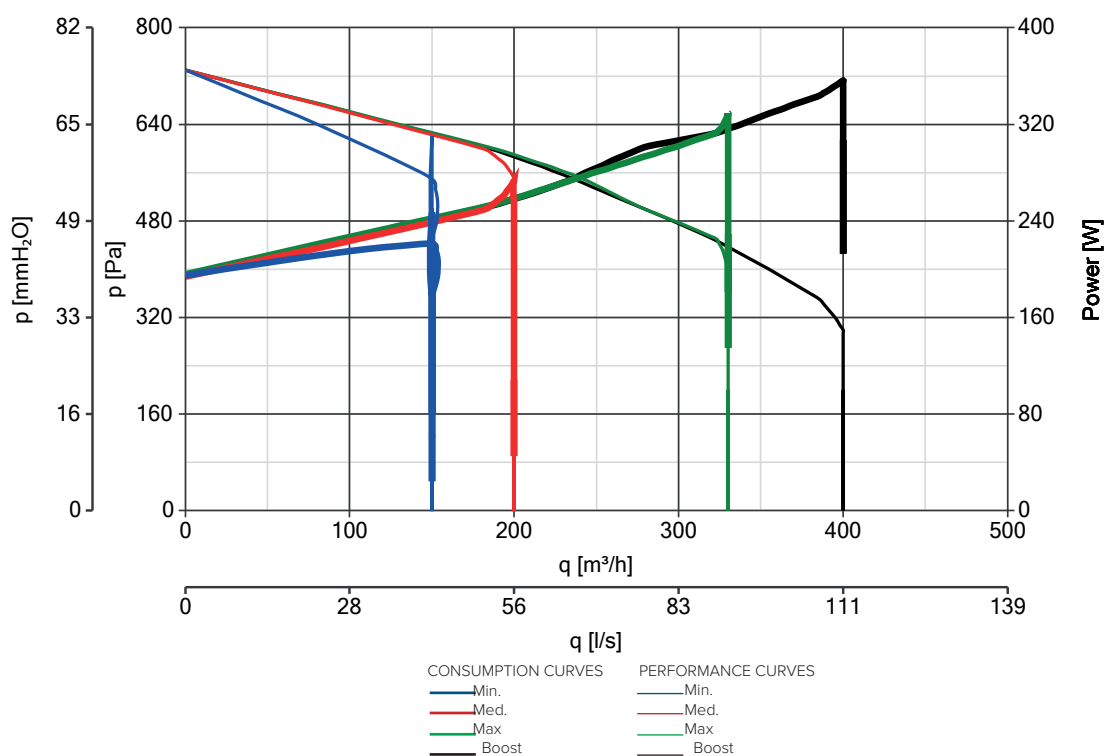


Low noise



Products with air filtration system

PERFORMANCE AND ABSORPTION



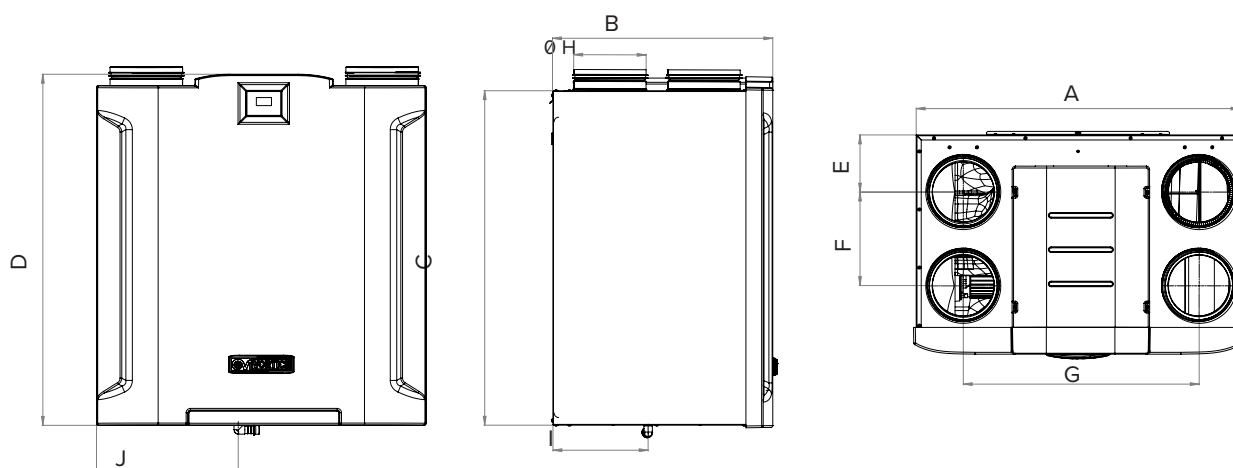


TECHNICAL DATA

PRODUCTS	CODE	V _~ 50HZ	W _{max}	A _{max}	MAX FLOW RATE		MAX PRESSURE		°C* MAX	KG
					m ³ /h	l/s	mmH ₂ O	Pa		
VORT HR 450 AVEL D	12101	220-240	350	2.75	400	110	69	680	40	40

* Maximum temperature with continuous operation of the product.

DIMENSIONS



PRODUCTS	A	B	C	D	E	F	G	ØH	I	J
VORT HR 450 AVEL D	708	480	730	766	125	205	516	158	207	306

Dimensions in mm

TECHNICAL FEATURES

- **Galvanised and painted steel sheet casing.** Brackets for wall-installation included in standard supply
- **Aesthetic plastic resin (ABS)** front panel. Plastic resin (PPE) internal parts
- **Suction and delivery ports** compatible with pipes with a nominal diameter of 160 mm
- **Pair of electric fans driven** by external rotor constant flow regulation EC motors (brushless) with shafts mounted on ball bearings to ensure virtually "maintenance-free" operation, directly coupled to forward-blade centrifugal impellers
4 operating speeds, can be set independently on installation
- **High efficiency** counter cross flow heat exchanger, made in plastic resin
- **Automatic frost protection** to prevent the formation of frost at the heat exchanger
- **Three ISO Coarse 90% (G4) class filters**, set respectively on the extraction duct, on the air delivery duct and on the by-pass (M5 and F7 filters available as an optional for the delivery duct and the by-pass), easily accessible for periodic maintenance.
- **Condensate collection tray** with drain devices
- **Possibility of interlocking to outdoor environmental sensors** (optionals) for automatic control of the operating mode
- **Floor or wall installation.** Can be integrated into residential home automation systems (ModBus protocol) on RS485 SLAVE mode

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SOUND LEVELS

	Lw dB (A)	Lw dB (A) 3m
Supply to internal	61.5	25.2
Extract to internal	45.7	41
Breakout	47.2	26.7

* Sound pressure calculated at 3 m in free field in accordance with ISO 9614.

Tests carried out using the reference source method in a reverberation booth.

ACCESSORIES

MODELS	DESCRIPTION	CODE	FOR MODEL
	G3 Filter	21628	12101
	G4 Bypass Filter	21629	12101
	F7 Filter	21624	12101
	F7 Bypass Filter	21626	12101
	1200W Heater	21622	12101
	2400W Heater	21623	12096 10915
	Silencer	21643	12101
	AF 160 Filter Box	22795	12101
	CB Touch LCD W	21933	12101